

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Title: DOCUMENT PROCESS SYSTEM
Appl. No.: Not yet assigned
Filing Date: August 18, 2000
Examiner: Not yet assigned
Art Unit: Not yet assigned

UTILITY PATENT APPLICATION
TRANSMITTAL

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Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is the nonprovisional utility patent application of:

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Enclosed are:

- [X] Specification, Claim(s), and Abstract (24 pages)
- [X] Formal drawings (7 sheets, Figures 1-10)
- [X] Declaration and Power of Attorney (2 pages)
- [X] Associate Power of Attorney
- [X] Assignment to TOSHIBA TEC KABUSHIKI KAISHA
- [X] Assignment Recordation Form Cover Sheet
- [X] Claim for Convention Priority
- [X] Certified copy of priority document (Japanese Patent Application No. 11-235489 filed August 23, 1999)

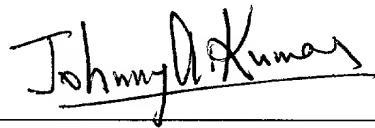
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Basic Fee							\$690.00		\$690.00
Total Claims:	12	-	20	=	0	x	\$18.00	=	0.00
Independents:	4	-	3	=	1	x	\$78.00	=	\$78.00
If any Multiple Dependent Claim(s) present:						+	\$260.00	=	0.00
Assignment Recordation Fee						+	\$40.00	=	\$40.00
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Respectfully submitted,



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TITLE OF THE INVENTION

DOCUMENT PROCESS SYSTEM

CROSS-REFERENCE TO RELATED APPLICATIONS

5 This application is based upon and claims the benefit of priority from the prior Japanese Patent Application No. 11-235489, filed August 23, 1999, the entire contents of which are incorporated herein by reference.

BACKGROUND OF THE INVENTION

10 The present invention relates to a document process system wherein documents, photographs, drawings, etc. are scanned and registered/transmitted to document management systems as electronic documents.

15 In conventional document process apparatuses, a document is normally scanned by a single operation and the scanned document is registered/transmitted to a single document management system as a single document.

20 In a case where a document scanned by a single operation is registered/transmitted to a document management system as a plurality of documents, the scanned document is divided by a specified method as in a case of a pattern-document process apparatus used for a special purpose.

25 In a case where a document scanned by a single operation is registered/transmitted to a plurality of document management systems as a single document,

copies of the document are produced and the same data is registered/transmitted to the plural document management systems.

Where a variety of documents of many pages are scanned and registered/transmitted to a plurality of document management systems as electronic documents, an electronic document process rule, for example, for registering/transmitting electronic documents to the plural document management systems is predetermined and the documents are scanned and processed according to this rule. Thereby, the number of scan operations is reduced, and more efficient document processing is achieved.

In this document process method, however, the methods for predetermining the electronic document process rule for reducing the number of scan operations do not include a method for dividing a document scanned by a single scan operation into a plurality of documents. Because of this, the user has to divide a document at the time of scanning and to repeat the scan operation for each of divisions of the document.

Moreover, it is not possible that the document scanned by a single operation is divided and the divided documents are registered/transmitted to a plurality of document management systems. Furthermore, it is not possible that documents scanned by plural scan operations are coupled and the coupled

document is registered/transmitted to a document management system as a single document.

5 In the case of the pattern document process apparatus used for a special purpose, the document scanned by a single operation can be registered as a plurality of documents. In this case, however, a mechanism for dividing the scanned document is incorporated in a process for registering documents, and this apparatus differs in objective from the
10 apparatus for processing electronic documents by referring to the predetermined process rule. Consequently, there are problems: difficulty in changing the process rule by the user, a low degree of freedom of the process rule, and infeasibility of
15 application to the processing of non-pattern documents.

In the case of producing copies of a document and registering/transmitting the same data to a plurality of document management systems, a document scanned by a single operation is not divided. Consequently, where
20 different data is registered/transmitted to a plurality of document management systems, the user has to divide a document at the time of scan and to repeat the scan operation for each of divisions of the document.

BRIEF SUMMARY OF THE INVENTION

25 The object of the present invention is to provide a document process system capable of enhancing flexibility of document processing and realizing

an efficient scan operation.

In order to achieve this object, according to an aspect of the present invention, there is provided a document process system for reading
5 a document, a photograph, a drawing, or the like, and registering/transmitting read data as an electronic document into a plurality of document management systems, the system comprising:

input section for inputting a condition for
10 dividing/coupling the read electronic document and reconstructing the electronic document, and document registration information;

document division/coupling process section for
dividing/coupling the electronic document read by a
15 single operation, on the basis of the condition input by the input section;

buffer for temporarily storing the electronic
document divided/coupled by the document division/
coupling process section, and the document registration
20 information input by the input section; and

document register process section for executing
document registration to a predetermined one of the
document management systems on the basis of the
electronic document and the document registration
25 information stored in the buffer.

According to another aspect of the invention, there is provided a document process system for

scanning a document, a photograph, a drawing, or the like, and registering/transmitting an acquired scan document as an electronic document into a plurality of document management systems, the system comprising:

5 a division/coupling set information input/output section for setting a condition for dividing/coupling the scan document and reconstructing a document;

 a division/coupling set information database for storing the set condition;

10 a division/coupling set process section for storing the condition set by an operator through the division/coupling set information input/output section into the division/coupling set information database; and

15 a division/coupling process section for executing a division/coupling process for the scan document by referring to contents in the division/coupling set information database,

 wherein the document is divided/coupled on the basis of the condition preset through the division/coupling set information input/output section and stored in the division/coupling set information database.

20 According to still another aspect of the invention, there is provided a document process system for scanning a document, a photograph, a drawing, or the like, and registering/transmitting an acquired scan

document as an electronic document into a plurality of document management systems, the system comprising:

a scan parameter recognition section for discriminating scan-related information collected by a scan process section at a time of document scan, and generating scan parameter data including information necessary for a division/coupling process;

a scan parameter database for storing the scan parameter data; and

a division/coupling process section for executing the division/coupling process for the scan document by referring to contents in the scan parameter database on an as-needed basis,

wherein the division/coupling process is automatically executed by determining the condition for document division/coupling on the basis of the data stored in the scan parameter database.

According to still another aspect of the invention, there is provided a document process system for scanning a document, a photograph, a drawing, or the like, and registering/transmitting an acquired scan document as an electronic document into a plurality of document management systems, the system comprising:

a division/coupling set information input/output section for setting a condition for dividing the scan document and registering the divided scan documents into a plurality of document management systems;

a division/coupling set information database for storing the set condition;

5 a division/coupling set process section for storing the condition set by an operator through the division/coupling set information input/output section into the division/coupling set information database; and

10 a division/coupling process section for executing a division/coupling process for the scan document by referring to contents in the division/coupling set information database,

15 wherein the document is divided/coupled to be registered/transmitted to the plurality of document management systems, on the basis of the condition preset through the division/coupling set information input/output section and stored in the division/coupling set information database.

20 Additional objects and advantages of the invention will be set forth in the description which follows, and in part will be obvious from the description, or may be learned by practice of the invention. The objects and advantages of the invention may be realized and obtained by means of the instrumentalities and combinations particularly pointed out hereinafter.

25 BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

The accompanying drawings, which are incorporated in and constitute a part of the specification,

illustrate presently preferred embodiments of the invention, and together with the general description given above and the detailed description of the preferred embodiments given below, serve to explain
5 the principles of the invention.

FIG. 1 is a block diagram showing the structure of a document process system according to an embodiment of the present invention;

FIG. 2 is a view for describing an outline of
10 processes in the document process system according to the embodiment;

FIG. 3 shows an example of a scheme of data stored in a scan parameter database (DB);

FIG. 4 shows an example of a scheme of data stored
15 in a division/coupling set information DB;

FIGS. 5A and 5B show an example of scheme of data stored in a division/coupling buffer;

FIG. 6 is a flow chart illustrating a process carried out in a division/coupling process section;

FIG. 7 shows an example of division/coupling set
20 information;

FIG. 8 shows an example of division/coupling set information;

FIGS. 9A and 9B show examples of display of
25 division/coupling set information; and

FIG. 10 shows an example of display of an division/coupling inquiry.

DETAILED DESCRIPTION OF THE INVENTION

An embodiment of the present invention will now be described with reference to the accompanying drawings.

FIG. 1 is a block diagram showing the structure of a document process system according to an embodiment of the present invention. A document process system 1 is connected to two or more document management systems 2 over a communication line.

Specifically, the document process system 1 comprises a document division/coupling process section 3, a document register process section 4, a scan section 5, a division/coupling set information input/output (I/O) section 6, a division/coupling set information database (DB) 7, a division/coupling buffer 8, and a scan parameter DB 9.

The document division/coupling process section 3 is a module which realizes a document division/coupling function according to the present invention. The document register process section 4 is a module which realizes a document register/document division register function according to the invention. Thereby, processes illustrated in FIG. 2 are carried out, as will be described later.

The scan section 5 is an interface for taking in a document. The division/coupling set information I/O section 6 is an interface for an input operation relating to document division/coupling setting.

A description of the scan section 5 may be omitted since it is the same as a prior-art scan section. Examples of display on the division/coupling set information I/O section 6 will be described later.

5 There is no limitations to the mode in which a display portion of the division/coupling set information I/O section 6 is provided. For example, the display portion may be provided on a scan apparatus including the scan section 5. Alternatively, a virtual display
10 process section such as a Web server may be provided in the document process system 1 and a remote browser may, in actuality, be displayed.

The division/coupling set information DB 7 stores rules for dividing/coupling document(s).
15 The division/coupling buffer 8 is a storage area required in a process of registering reconstructed divided/coupled documents into the document management systems 2. The scan parameter DB 9 stores information relating to a document scan state in the scan
20 section 5. The data schemes in the division/coupling set information DB 7, division/coupling buffer 8 and scan parameter DB 9 will be described later.

FIG. 2 is a view for describing an outline of processes in the document process system 1 according
25 to the embodiment. In this system, a document is taken in by a scan process section 10 and converted to electronic scan data 11. Following the scan process

section 10, a scan parameter recognition section 12 is executed and information relating to the scan state, including information necessary for a document division/coupling process, is stored in the scan parameter DB 9. The scan process section 10 and scan parameter recognition section 12 correspond to the scan section 5 in FIG. 1.

Then, the scan data is subjected to a division/coupling process in a division/coupling process section 13. When this process is executed, the division/coupling process section 13 refers to the information stored in the division/coupling set information DB 7 and scan parameter DB 9. Based on the set information, the process is executed. The information stored in the division/coupling set information DB 7 is information which is registered by a division/coupling set process section 14 on the basis of data input by the operator through the division/coupling set information I/O section (hereinafter referred to as "I/O section") 6. Where information input by the operator is necessary when the division/coupling set process section 14 is to carry out the process, a division/coupling inquire process section 15 causes the I/O section 6 to display an information content for prompting the information input. In this case, the input information is reflected on the document processing.

The division/coupling process section 13,
division/coupling set process section 14 and
division/coupling inquire process section 15
correspond to the document division/coupling
5 process section 3 in FIG. 1.

The document data processed in the
division/coupling process section 13 is temporarily
stored in the division/coupling buffer 8 and then
registered in each document management system 2 through
10 the document register process section 4.

FIG. 3 shows an example of a scheme of data stored
in the scan parameter DB 9. The scan parameter DB 9
stores information selected by an auto-discrimination
function of the scan process section 10 when a document
15 is scanned, and information designated by the operator
when a document is scanned.

FIG. 4 shows an example of a scheme of data
stored in the division/coupling set information DB 7.
The division/coupling set information DB 7 stores items
20 of "DOCUMENT PROCESS" 16, "DOCUMENT PROCESS UNIT" 17,
"EXCESS DOCUMENT PROCESS" 18, "REGISTER PROCESS" 19 and
"REGISTRATION DESTINATION" 20.

Item "DOCUMENT PROCESS" 16 designates a document
processing method, that is, division, coupling,
25 division/coupling, or non-processing. Item "DOCUMENT
PROCESS UNIT" 17 designates a process unit for
a process designated by "DOCUMENT PROCESS."

Item "EXCESS DOCUMENT PROCESS" 18 designates a process content to be executed for an excess document (or excess page(s)) which may remain as a result of the division/coupling of a document on the basis of a document process unit. Item "REGISTER PROCESS" 19 designates a document registration method, that is, execution of division-registration or non-execution of division-registration. If division-registration is not executed, the document management system at a registration destination is designated. Item "REGISTRATION DESTINATION" 20 designates each registration destination and a registration condition for division-registration when the division-registration has been designated in item "REGISTER PROCESS."

FIGS. 5A and 5B show an example of scheme of data stored in the division/coupling buffer 8. The division/coupling buffer 8 comprises a data table 21 for managing document data itself, and a registration information table 22 storing registration information on document data, etc.

The registration information table 22 shown in FIG. 5A stores a scan ID 23, which is an identifier for a scan execution unit at the time of a scan operation; a document ID 24, which is an identifier for a document unit obtained after execution of the division/coupling process; a state 25 indicating a current state of each

document in the buffer; and a registration destination
26 representing a registration destination of each
document.

5 The data table 21 shown in FIG. 5B stores
a document ID 27 which is an identifier for a document
unit obtained after the execution of the division/
coupling process, and data 28 which is document data
itself of each document.

10 A process operation in the division/coupling
process section 13 with the above structure will now be
described with reference to a flow chart of FIG. 6.

15 To start with, in step 29, item "DOCUMENT PROCESS"
16 in the division/coupling set information DB 7 is
referred to. If a document division/coupling process
is necessary, control goes to step 30. If not, control
goes to step 36.

 In step 30, division/coupling set information
from the division/coupling set information DB 7 is
referred to.

20 In step 31, item "DOCUMENT PROCESS UNIT" 17 in the
division/coupling set information DB 7 is referred to.
If it is necessary to refer to the scan parameter,
control goes to step 32. If not, control goes to
step 33.

25 In step 32, the scan parameter from the scan
parameter DB 9 is referred to.

 In step 33, item "EXCESS DOCUMENT PROCESS" 18

from the division/coupling set information DB 7 is referred to. If an inquire process is necessary, control goes to step 34. If not, control goes to step 35.

5 In step 34, the inquire process is executed and necessary information is acquired from the I/O section 6.

 In step 35, division/coupling of the document is determined and executed.

10 In step 36, information relating to the divided/coupled document is temporarily stored in the division/coupling buffer 8 and also information relating to the registration of the document is stored in the division/coupling buffer 8.

15 A specific example of the document process will now be described with reference to FIGS. 3, 4, 5A and 5B.

 In the example in FIG. 4, a process rule "a document is divided to produce division documents in units of 4 pages, and the division documents are registered" is determined. Assume that a document of 10 pages in total (consisting of four A4-size pages, four B5-size pages, and two B4-size pages in the named order) has been scanned (this case corresponding to scan ID = 2 in FIG. 5A). If the obtained scan data is divided according to the process rule in FIG. 4, two documents each consisting of 4 pages and one document

20

25

consisting of 2 pages are produced. In addition,
according to the division-registration rule in FIG. 4,
one of the 4-page documents (document ID = 3 in
FIG. 5A) is registered into the document management
5 system A, the other (document ID = 4 in FIG. 5A) into
the document management system B, and the 2-page
document (document ID = 5 in FIG. 5A) into the document
management system C.

10 The division/coupling set information shown in
FIG. 4 is input in advance by the operator through the
user interface, as illustrated in FIGS. 9A and 9B by
way of example.

A document process with division/coupling set
information shown in FIG. 7 will now be described.

15 In the example in FIG. 7, a process rule
"a document is divided to produce division documents
in units of 1 sheet, and the division documents are
registered" is determined. Assume that a document
of 2 sheets in total (this case corresponding
20 to scan ID = 1 in FIG. 5A) has been executed,
and scan parameters as shown in FIG. 3 have been
recorded. In the example in FIG. 3, the scan type
is "ADF DOUBLE-SIDE" and thus scan data of 4 pages of
the 2 sheets is acquired. According to the process
25 rule indicated in FIG. 7, the scan data is divided to
produce two documents each consisting of two pages
(document ID = 1, 2 in FIG. 5A). Both documents are

registered into the document management system A according to the registration rule in FIG. 7.

Of the scan parameters in FIG. 3, the "SCAN TYPE" is used as a factor in automatically determining the number of pages of "one sheet" designated in FIG. 7.

A document process with division/coupling set information shown in FIG. 8 will now be described.

In the example in FIG. 8, a process rule "documents are coupled to produce documents in units of 4 pages, and the coupled documents are registered" is determined. Assume that a document of 2 pages in total (this case corresponding to scan ID = 3 in FIG. 5A) has been executed. According to the process rule indicated in FIG. 8, the scan data is processed to produce a document consisting of 2 pages. In this case, since a document of 4 pages is not produced, this document is stored in the buffer as "an excess document" in the state of "coupling" (document ID = 6 in FIG. 5A). Since item "EXCESS DOCUMENT PROCESS" in FIG. 8 designates "INQUIRE" to the operator, a user interface as shown in FIG. 10 is displayed.

As has been described above, according to the embodiment of the present invention, a plurality of documents can be registered by a single operation ("facility in operation").

Different documents can be registered into a plurality of document management systems by a single

operation ("facility in operation").

A plurality of documents can be coupled into one document and this document can be registered ("facility in operation" and "flexibility of process").

5 Rules relating to document processing can be input in advance ("flexibility and diversity of process").

A process content for a document can be automatically determined ("flexibility and diversity of process").

10 Destinations of registration of divided documents can be individually designated ("facility in operation" and "flexibility of process").

Information necessary for document processing can be acquired from the operator on the spot ("flexibility and diversity of process").

15 Additional advantages and modifications will readily occur to those skilled in the art. Therefore, the invention in its broader aspects is not limited to the specific details and representative embodiments shown and described herein. Accordingly, various
20 modifications may be made without departing from the spirit or scope of the general inventive concept as defined by the appended claims and their equivalents.

WHAT IS CLAIMED IS:

1. A document process system for reading
a document, a photograph, a drawing, or the like, and
registering/transmitting read data as an electronic
5 document into a plurality of document management
systems, the system comprising:

input section for inputting a condition for
dividing/coupling the read electronic document and
reconstructing the electronic document, and document
10 registration information;

document division/coupling process section for
dividing/coupling the electronic document read by
a single operation, on the basis of the condition input
by the input section;

15 buffer for temporarily storing the electronic
document divided/coupled by the document division/
coupling process section, and the document registration
information input by the input section; and

document register process section for executing
20 document registration to a predetermined one of said
document management systems on the basis of the
electronic document and the document registration
information stored in the buffer.

2. A document process system according to
25 claim 1, wherein said input section is provided
with display section for inputting the condition for
dividing/coupling the read electronic document and

reconstructing the electronic document, and the document registration information.

3. A document process system according to claim 1, wherein said document division/coupling process section divides/couples the electronic document read by a plurality of operations, on the basis of the condition input by the input section.

4. A document process system according to claim 1, wherein said document division/coupling process section comprises a division/coupling process section, a division/coupling set process section, and a division/coupling inquire process section.

5. A document process system according to claim 4, wherein said division/coupling set process section sets/registers division/coupling information on the basis of the condition input by the input section.

6. A document process system according to claim 5, wherein said division/coupling process section divides/couples the electronic document on the basis of the division/coupling information set/registered by the division/coupling set process section.

7. A document process system according to claim 6, wherein said division/coupling inquire process section executes a process to prompt information input where the information input is required at a time of a process execution in the division/coupling process section.

8. A document process system according to
claim 1, wherein said buffer is a buffer for use in
dividing/coupling the electronic document in a process
of registering the electronic document into the
5 document management system.

9. A document process system according to
claim 1, wherein said document register process section
executes document registration to said plurality of
document management systems on the basis of the
10 electronic document and the document registration
information stored in the buffer.

10. A document process system for scanning
a document, a photograph, a drawing, or the like, and
registering/transmitting an acquired scan document as
15 an electronic document into a plurality of document
management systems, the system comprising:

a division/coupling set information input/output
section for setting a condition for dividing/coupling
the scan document and reconstructing a document;

20 a division/coupling set information database for
storing the set condition;

a division/coupling set process section for
storing the condition set by an operator through
the division/coupling set information input/output
25 section into the division/coupling set information
database; and

a division/coupling process section for executing

a division/coupling process for the scan document by referring to contents in the division/coupling set information database,

5 wherein the document is divided/coupled on the basis of the condition preset through the division/coupling set information input/output section and stored in the division/coupling set information database.

11. A document process system for scanning
10 a document, a photograph, a drawing, or the like, and registering/transmitting an acquired scan document as an electronic document into a plurality of document management systems, the system comprising:

15 a scan parameter recognition section for discriminating scan-related information collected by a scan process section at a time of document scan, and generating scan parameter data including information necessary for a division/coupling process;

20 a scan parameter database for storing the scan parameter data; and

 a division/coupling process section for executing the division/coupling process for the scan document by referring to contents in the scan parameter database on an as-needed basis,

25 wherein the division/coupling process is automatically executed by determining the condition for document division/coupling on the basis of the data

stored in the scan parameter database.

12. A document process system for scanning
a document, a photograph, a drawing, or the like, and
registering/transmitting an acquired scan document as
5 an electronic document into a plurality of document
management systems, the system comprising:

a division/coupling set information input/output
section for setting a condition for dividing the scan
document and registering the divided scan documents
10 into a plurality of document management systems;

a division/coupling set information database for
storing the set condition;

a division/coupling set process section for
storing the condition set by an operator through
15 the division/coupling set information input/output
section into the division/coupling set information
database; and

a division/coupling process section for executing
a division/coupling process for the scan document by
20 referring to contents in the division/coupling set
information database,

wherein the document is divided/coupled to
be registered/transmitted to the plurality of
document management systems, on the basis of
25 the condition preset through the division/coupling
set information input/output section and stored in
the division/coupling set information database.

ABSTRACT OF THE DISCLOSURE

A division/coupling process section refers to item "DOCUMENT PROCESS" in a division/coupling set information DB. If a document division/coupling process needs to be executed, division/coupling set information from the division/coupling set information DB is referred to. If scan parameters need to be referred to, the division/coupling process section refers to scan parameters from a scan parameter DB.

If an inquire process needs to be executed by referring to item "EXCESS DOCUMENT PROCESS" in the division/coupling set information DB, necessary information is acquired from an input/output section through a division/coupling inquire process section.

Thus, the document division/coupling is determined and executed. Information on the divided/coupled document is temporarily stored in a division/coupling buffer and also information on document registration is stored in the division/coupling buffer. The divided/coupled document is then registered into document management systems through a register process section.

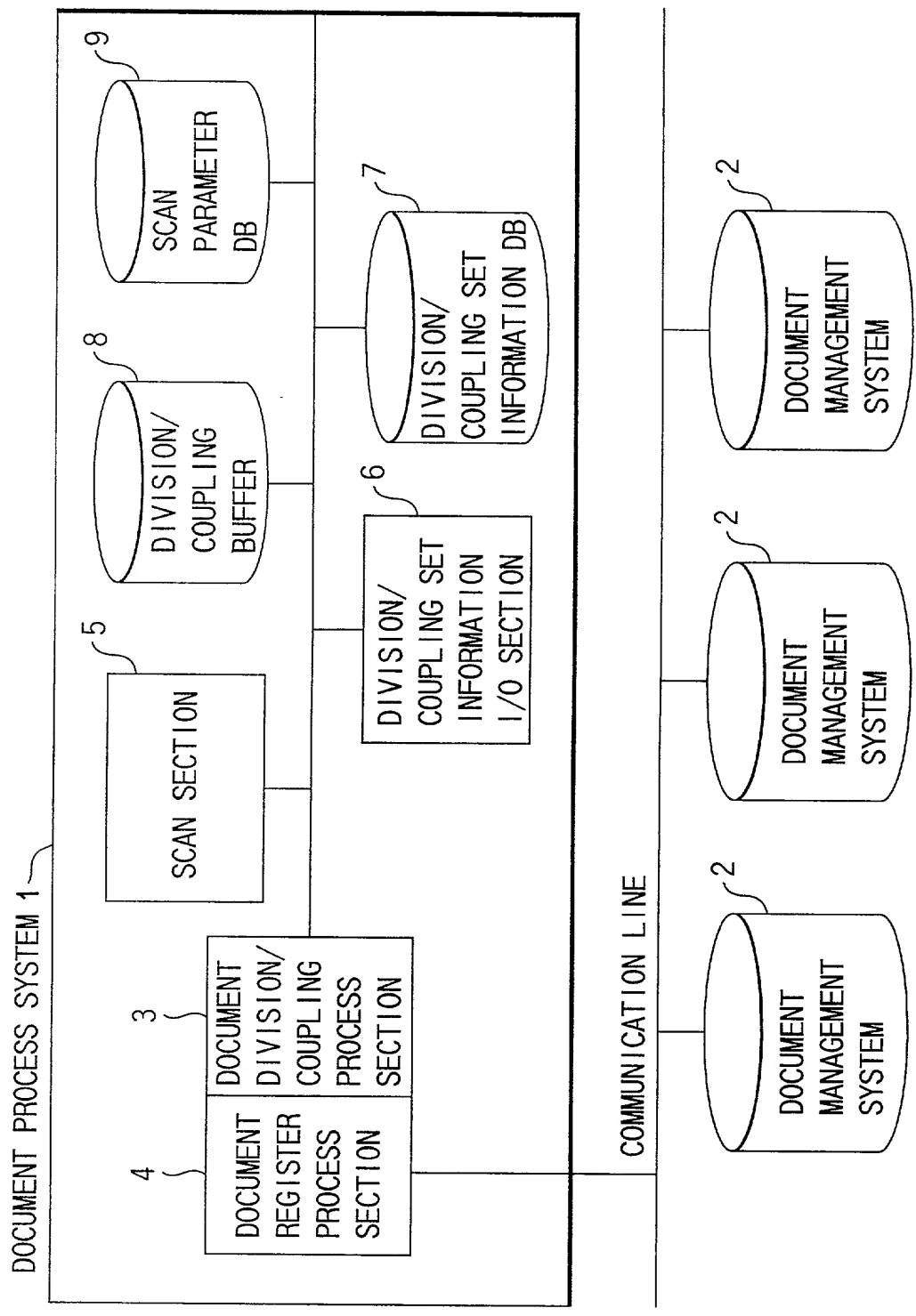


FIG.1

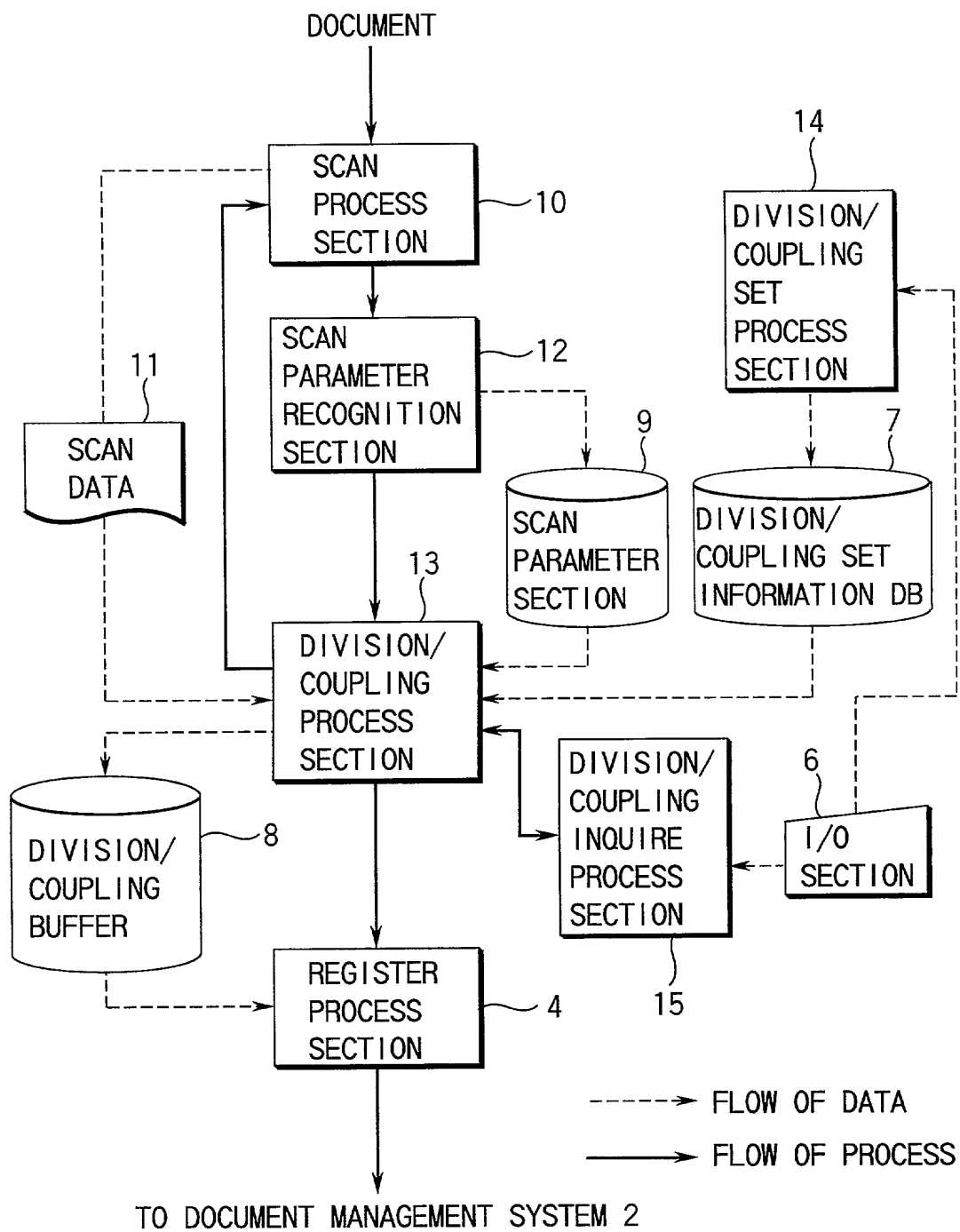


FIG.2

ITEM	VALUE
RESOLUTION	600dpi
SCAN TYPE	ADF DOUBLE SIDE
SHEET SIZE	A4
SCAN SIZE	PHOTO
DIRECTION OF DOCUMENT	LANDSCAPE

FIG. 3

ITEM	VALUE 1	VALUE 2
16 DOCUMENT PROCESS	DIVIDE	
17 DOCUMENT PROCESS UNIT	1 DOCUMENT FOR 4 PAGES	
18 EXCESS DOCUMENT PROCESS	REGISTER AS ONE DOCUMENT	
19 REGISTER PROCESS	DIVISION-REGISTER	
16 REGISTRATION DESTINATION 1:CONDITION	DOCUMENT MANAGEMENT SYSTEM A	SHEET SIZE:A4
REGISTRATION DESTINATION 2:CONDITION	DOCUMENT MANAGEMENT SYSTEM B	SHEET SIZE:B4
REGISTRATION DESTINATION 3:CONDITION	DOCUMENT MANAGEMENT SYSTEM C	SHEET SIZE:OTHER THAN A4 & B5

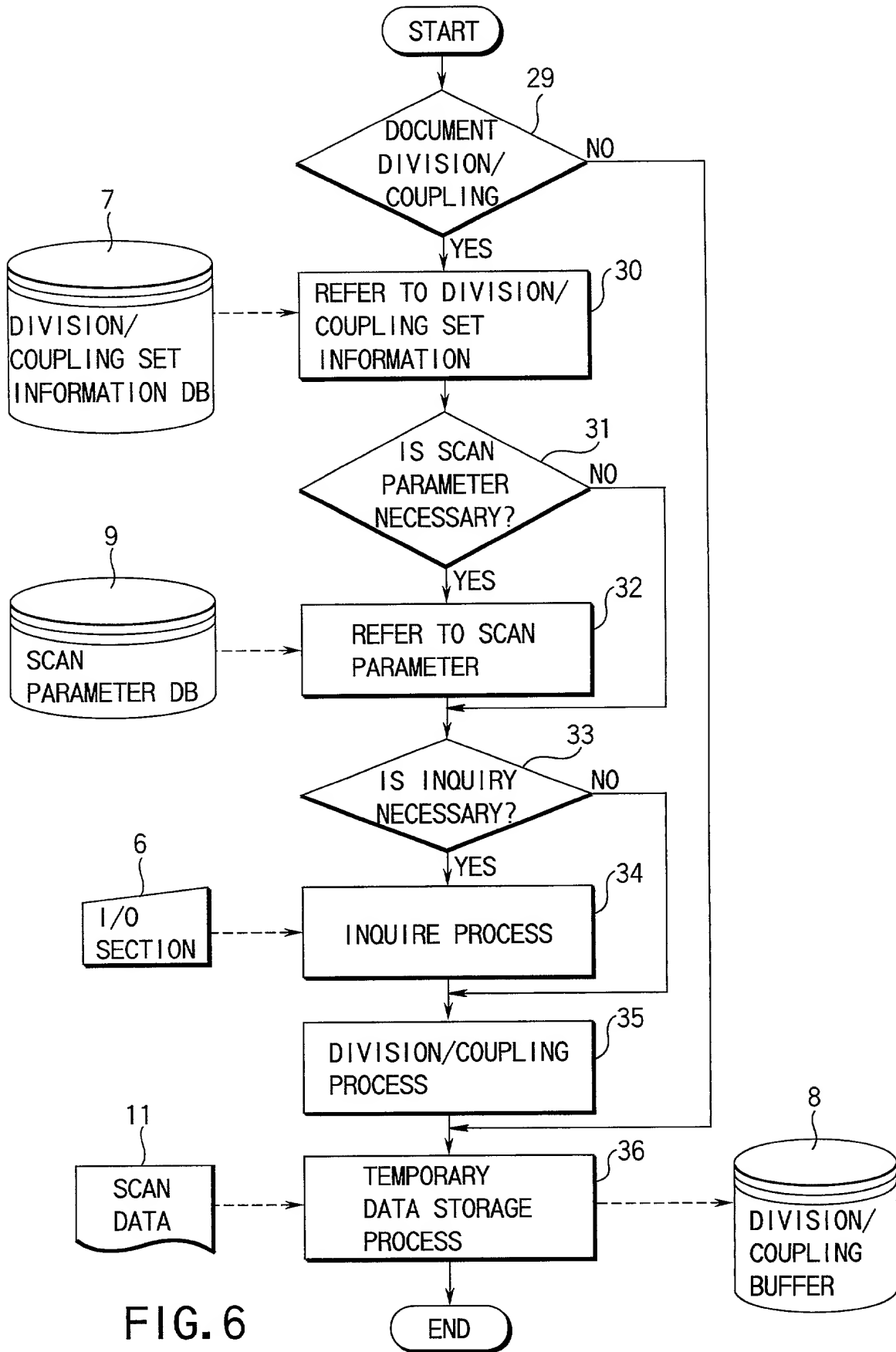
FIG. 4

SCAN ID	DOCUMENT ID	STATE	REGISTRATION DESTINATION
1	1	WAIT FOR REGISTRATION	DOCUMENT MANAGEMENT SYSTEM A
1	2	WAIT FOR REGISTRATION	DOCUMENT MANAGEMENT SYSTEM A
2	3	WAIT FOR REGISTRATION	DOCUMENT MANAGEMENT SYSTEM A
2	4	WAIT FOR REGISTRATION	DOCUMENT MANAGEMENT SYSTEM B
2	5	WAIT FOR REGISTRATION	DOCUMENT MANAGEMENT SYSTEM C
3	6	COUPLING	DOCUMENT MANAGEMENT SYSTEM A
:	:	:	:

FIG. 5A

SCAN ID	DATA
1	(DOCUMENT DATA)
2	:
3	:
4	:
5	:
:	:

FIG. 5B



ITEM	VALUE 1	VALUE 2
DOCUMENT PROCESS	DIVIDE	
DOCUMENT PROCESS UNIT	1 DOCUMENT FOR 1 SHEET	
EXCESS DOCUMENT PROCESS	DELETE	
REGISTER PROCESS	NO DIVISION- REGISTER	DOCUMENT MANAGEMENT SYSTEM A
REGISTRATION DESTINATION 1 :CONDITION		
REGISTRATION DESTINATION 2 :CONDITION		
REGISTRATION DESTINATION 3 :CONDITION		

FIG. 7

ITEM	VALUE 1	VALUE 2
DOCUMENT PROCESS	COUPLING	
DOCUMENT PROCESS UNIT	1 DOCUMENT FOR 4 PAGES	
EXCESS DOCUMENT PROCESS	INQUIRE	
REGISTER PROCESS	NOT COUPLING- REGISTER	DOCUMENT MANAGEMENT SYSTEM A
REGISTRATION DESTINATION 1 :CONDITION		
REGISTRATION DESTINATION 2 :CONDITION		
REGISTRATION DESTINATION 3 :CONDITION		

FIG. 8

DIVISION/COUPLING METHOD DESIGNATION

☐ REGISTER ALL PAGES AS ONE DOCUMENT

☐ REGISTER ONE PAGE AS ONE DOCUMENT

☐ DIVISION/COUPLING REGISTER ONE PAGE AS ONE DOCUMENT

☒ DIVISION/COUPLING-REGISTER PAGES AS ONE DOCUMENT

☐ DIVISION/COUPLING-REGISTER PAGE(S) AS ONE DOCUMENT

EXCESS PAGE: ☒ REGISTER AS ONE DOCUMENT

☐ DELETE

☐ INQUIRE OF USER

FIG. 9A

REGISTRATION DESTINATION DESIGNATION

☐ REGISTER TO SINGLE SYSTEM

REGISTRATION DESTINATION

☒ DIVISION-REGISTER TO PLURAL SYSTEMS

CONDITION 1 IS

REGISTRATION DESTINATION

CONDITION 2 IS

REGISTRATION DESTINATION

FIG. 9B

EXCESS PAGE PROCESS DESIGNATION

SCANNED DOCUMENT IS BEING DIVIDED IN
UNITS OF 4 PAGES. SCANNED DOCUMENT
CONSISTS OF 10 PAGES, AND 2 EXCESS PAGES
REMAIN. HOW SHOULD THEY BE PROCESSED?

- ☐ DELETE EXCESS PAGE
- ☐ REGISTER EXCESS PAGE AS ONE DOCUMENT
- ☐ COUPLE EXCESS PAGE TO NEXT SCAN DOCUMENT

OK

CANCEL

FIG.10

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare:
that I verily believe myself to be the original, first and sole (if only one individual inventor is listed below) or an original, first and joint inventor (if more than one individual inventor is listed below) of the invention in

DOCUMENT PROCESS SYSTEM

the specification of which is attached hereto unless the following box is checked.

☐ was filed on _____ as United States Application
or PCT International Application No. _____, and
was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information of which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365 (b) of any foreign application(s) for patent or inventor's certificate, or 35 U.S.C. 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

<u>Country</u>	<u>Category</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Priority Claim</u>
Japan	Patent	11-235489	August 23, 1999	Yes

And I hereby appoint Stephen A. Bent (Reg.No. 29,768), David A. Blumenthal (Reg.No. 26,257), William T. Ellis (Reg.No. 26,874), John J. Feldhaus (Reg.No. 28,822), Patricia D. Granados (Reg.No. 33,683), John P. Isacson (Reg.No. 33,715), Eugene M. Lee (Reg.No. 32,039), Richard Linn (Reg.No. 25,144), Peter G. Mack (Reg.No. 26,001), Brian J. McNamara (Reg.No. 32,789), Sybil Meloy (Reg.No. 22,749), George E. Quillin (Reg.No. 32,792), Colin G. Sandercock (Reg.No. 31,298), Bernhard D. Saxe (Reg.No. 28,665), Charles F. Schill (Reg.No. 27590), Richard L. Schwaab (Reg.No. 25,479), Arthur Schwartz (Reg.No. 22,115) and Harold C. Wegner (Reg.No. 25,258), each of whose address is Suite 500, 3000 K Street, N.W. Washington, D.C. 20007-5109, or any one of them, my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent & Trademark Office connected therewith, and request that correspondence be directed to Foley & Lardner, Suite 500, 3000 K Street, N.W. Washington, D.C. 20007-5109.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

DECLARATION FOR PATENT APPLICATION

I declare further that my citizenship, residence and post office address are as stated below next to my name:

Inventor: (Signature)

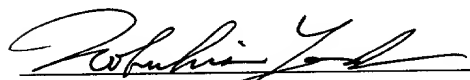
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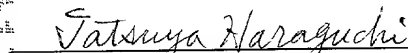
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Citizen of: Japan

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Citizen of: Japan

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Nobuhisa YODA *et al.*
Title: DOCUMENT PROCESS SYSTEM
Appl. No.: Not yet assigned
Filing Date: August 18, 2000
Examiner: Not yet assigned
Art Unit: Not yet assigned

ASSOCIATE POWER OF ATTORNEY

Sir:

The undersigned attorney of record hereby grants Johnny A. Kumar, Reg. No. 34,649, an associate power with full powers of substitution and revocation to prosecute the above-identified application and transact all business in the Patent and Trademark Office connected therewith.

Respectfully submitted,

Date

August 18, 2000

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